

**What is claimed is:**

- 1) A recombinant polynucleotide selected from the group consisting of SEQ ID NO: 1 through  
SEQ ID NO: 31,564.
- 2) A recombinant polypeptide selected from the group consisting of SEQ ID NO: 31,565  
5 through SEQ ID NO: 63,128.
- 3) A method of producing a plant having an improved property, wherein said method comprises  
transforming a plant with a recombinant construct comprising a promoter region functional  
in a plant cell operably joined to a polynucleotide comprising a coding sequence for a  
polypeptide associated with said property, and growing said transformed plant, wherein said  
10 polypeptide is selected from the group consisting of:
  - a) a polypeptide useful for improving plant cold tolerance, wherein said polypeptide  
comprises a sequence identified as such in Table 1;
  - b) a polypeptide useful for manipulating growth rate in plant cells by modification of the  
cell cycle pathway, wherein said polypeptide comprises a sequence identified as such in  
15 Table 1;
  - c) a polypeptide useful for improving plant drought tolerance, wherein said polypeptide  
comprises a sequence identified as such in Table 1;
  - d) a polypeptide useful for providing increased resistance to plant disease, wherein said  
polypeptide comprises a sequence identified as such in Table 1;
  - 20 e) a polypeptide useful for galactomannan production, wherein said polynucleotide  
comprises a sequence identified as such in Table 1;
  - f) a polypeptide useful for production of plant growth regulators, wherein said polypeptide  
comprises a sequence identified as such in Table 1;

- g) a polypeptide useful for improving plant heat tolerance, wherein said polypeptide comprises a sequence identified as such in Table 1;
- h) a polypeptide useful for improving plant tolerance to herbicides, wherein said polypeptide comprises a sequence identified as such in Table 1;
- 5 i) a polypeptide useful for increasing the rate of homologous recombination in plants, wherein said polypeptide comprises a sequence identified as such in Table 1;
- j) a polypeptide useful for lignin production, wherein said polypeptide comprises a sequence identified as such in Table 1;
- k) a polypeptide useful for improving plant tolerance to extreme osmotic conditions,  
10 wherein said polypeptide comprises a sequence identified as such in Table 1;
- l) a polypeptide useful for improving plant tolerance to pathogens or pests, wherein said polypeptide comprises a sequence identified as such in Table 1;
- m) a polypeptide useful for yield improvement by modification of photosynthesis, wherein said polynucleotide comprises a sequence identified as such in Table 1;
- 15 n) a polypeptide useful for modifying seed oil yield and/or content, wherein said polypeptide comprises a sequence identified as such in Table 1;
- o) a polypeptide useful for modifying seed protein yield and/or content, wherein said polypeptide comprises a sequence identified as such in Table 1;
- p) a polypeptide encoding a plant transcription factor, wherein said polypeptide comprises a  
20 sequence identified as such in Table 1;
- q) a polypeptide useful for yield improvement by modification of carbohydrate use and/or uptake, wherein said polypeptide comprises a sequence identified as such in Table 1;

- r) a polypeptide useful for yield improvement by modification of nitrogen use and/or uptake, wherein said polypeptide comprises a sequence identified as such in Table 1;
- s) a polypeptide useful for yield improvement by modification of phosphorus use and/or uptake, wherein said polypeptide comprises a sequence identified as such in Table 1; and
- 5 t) a polypeptide useful for yield improvement by providing improved plant growth and development under at least one stress condition, wherein said polypeptide comprises a sequence identified as such in Table 1.